

OLEFIN OLIGOMERIZATION CATALYST AND OLEFIN OLIGOMERIZATION USING THE SAME

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Abstract of JP9194524

PROBLEM TO BE SOLVED: To obtain a highly stable olefin oligomerization catalyst capable of giving 1-hexane useful as a feedstock comonomer for linear low-density polyethylene in high selectivity and yield, composed of each specific chromium compound, alkylmetal compound, and metal imide compound.

SOLUTION: This catalyst comprises (A) a chromium compound (pref. 0.01 μ mol to 10mmol/L in concentration) of formula I ((m) is 1-6; (n) is 0-4; A is a 1-2C alkyl, aryl, etc.; B is a nitrogen-contg. compound, phosphorus-contg. compound, etc.) such as chromium (II) dimethyl, (B) pref. 10-2000eq. (per mol of the component A) of an alkylmetal compound of formula II ((p+q) is 1-3; M is lithium, magnesium, etc.; R is a 1-10C alkyl; X is H, an alkoxyl, etc.) such as methyllithium, and (C) pref. 1-300eq. of a metal imide compound of formula III ((d) is 1-4; M is a group IA or IIA metal element; Z is an imido structural unit-bearing nitrogen-contg. heterocycle) such as N-(trimethylsilyl) maleimide.

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